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(54) **Aqueous ink compositions**

(57) An ink comprised of a vehicle, colorant, and resin emulsion, and wherein the resin emulsion contains water, surfactant, resin particles and solubilized resin obtained from the polymerization of a mixture of olefinic monomers, and wherein at least one of the olefinic monomers is an acid.

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## EUROPEAN SEARCH REPORT

Application Number  
EP 98 11 0076

| DOCUMENTS CONSIDERED TO BE RELEVANT   |   |  |  |
|---|---|--|--|
| Category  | Citation of document with indication, where appropriate, of relevant passages   | Relevant to claim                                    | CLASSIFICATION OF THE APPLICATION (Int.Cl.6) |
| X   | EP 0 739 959 A (IMAJE) 30 October 1996<br>* page 4, line 12-18 *<br>* page 4, line 49 - page 5, line 6 *<br>* page 5, line 36-43; example 11 *<br>--- | 1-3,5,7  | C09D11/00                                    |
| A   | EP 0 412 548 A (SEIKO EPSON CORP.)<br>13 February 1991<br>* page 4, line 30-42; claims *<br>-----   | 1,2,5,7  |  |
|   |   |  | TECHNICAL FIELDS SEARCHED (Int.Cl.6)         |
|   |   |  | C09D   |
| -The present search report has been drawn up for all claims   |   |  |  |
| Place of search<br>THE HAGUE  |   | Date of completion of the search<br>25 November 1998 | Examiner<br>Girard, Y                        |
| <p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone<br/>Y : particularly relevant if combined with another document of the same category<br/>A : technological background<br/>O : non-written disclosure<br/>P : intermediate document</p> <p>T : theory or principle underlying the invention<br/>E : earlier patent document, but published on, or after the filing date<br/>D : document cited in the application<br/>L : document cited for other reasons<br/>.....<br/>&amp; : member of the same patent family, corresponding document</p> |   |  |  |

EPO FORM 1503 03 82 (P04C01)



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### CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):

☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

### LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet 8

☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

☒ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

1-8



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LACK OF UNITY OF INVENTION  
SHEET B

Application Number  
EP 98 11 0076

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims: 1-8

aqueous ink composition comprising an emulsion of an  
olefinic copolymer derived from at least one acid monomer

2. Claims: 9-10

process for preparing a resin emulsion from a mixture of  
olefinic monomers

ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.

EP 98 11 0076

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
The members are as contained in the European Patent Office EDP file on  
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25-11-1998

| Patent document<br>cited in search report | Publication<br>date | Patent family<br>member(s) | Publication<br>date |
|---|---------------------|----------------------------|---------------------|
| EP 739959 A                               | 30-10-1996          | FR 2733505 A               | 31-10-1996          |
|   |                     | AU 5190996 A               | 07-11-1996          |
|   |                     | CA 2175012 A               | 27-10-1996          |
|   |                     | CN 1142518 A               | 12-02-1997          |
|   |                     | JP 8302264 A               | 19-11-1996          |
| EP 412548 A                               | 13-02-1991          | JP 3163175 A               | 15-07-1991          |
|   |                     | US 5328504 A               | 12-07-1991          |